STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION

FINAL "AS-BUILT" PLANS

FINANCIAL PROJECT ID 194510-1-52-01

STATE PROJECT NO. 09030-3501 INDEX OF SIGNALIZATION PLANS HIGHLANDS COUNTY

SHEET DESCRIPTION

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REPORT OF CORE BORINGS

KEY SHEET

GENERAL NOTES

SIGNALIZATION PLANS

STATE ROAD NO. 25 (U.S. 27) AT

COLLEGE ROAD/BILL SACHSENMAIER MEMORIAL ROAD

SIGNALIZATION PLANS

CONCRETE STRAIN POLE SCHEDULE TO HAINES CITY TO LAKE WALES ~ ~ COUNTY TO AVON PARK # BOMBING & GUNNERY RANGE TO BRADENTON-Avon Park Estates T 33 S T 33 S T 34 S T 34 S LOCATION NO.I LI MILE S.R.25 (U.S.27) & COLLEGE RDJBILL SACHSENMAIER MEMORIAL RD. TO LORIDA (M.P.12.465) DELIMITED AREA 174 (700A) 2 8 8 TO SEBRING TO SEBRING WEST PALM BEACH a a 8 MIAMI

LOCATION OF PROJECT AVON PARK

WPI NO. 1112529

SIGNALIZATION SHOP DRAWINGS TO BE SUBMITTED TO: ARTHUR L. SHIPLEY, P.E. COMPREHENSIVE ENGINEERING SERVICES INC. 201 S. ORANGE AVENUE, SUITE 1300 ORLANDO, FLORIDA 32801

PLANS PREPARED BY:



COMPREHENSIVE ENGINEERING SERVICES INC. 201 S. ORANGE AVENUE, SUITE 1300 ORLANDO, FLORIDA 32801 CERTIFICATE OF AUTHORIZATION NO.7862 (407) 423-1600 CONTRACT NO. C-6867 VENDOR NO. 59-3472222

NOTE: THE SCALE OF THESE PLANS MAY HAVE CHANGED DUE TO REPRODUCTION.

ARTHUR L. SHIPLEY, P.E.

11/16/00 DATE.

P.E. NO. . 49398

SIGNALIZATION PLANS ENGINEER OF

> FISCAL SHEET YEAR NO. 01

REVISIONS

CONSTRUCTION DATED 2000, AS AMENDED BY CONTRACT DOCUMENTS

SHEET NO.

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SIGNALIZATION SHEET T-2 (REVISED 11-00)

GOVERNING STANDARDS AND SPECIFICATIONS
FLORIDA DEPARTMENT OF TRANSPORTATION
ROADWAY AND TRAFFIC DESIGN STANDARDS
DATED JANUARY 2000, AND
STANDARDS SPECIFICATIONS FOR ROAD AND BRIDGE

REVISIONS

DESCRIPTION

DATE BY

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION

CONTRACT PLANS

FINANCIAL PROJECT ID 194510-1-52-01 STATE PROJECT NO. 09030-3501 HIGHLANDS COUNTY

STATE ROAD NO. 25 (U.S. 27) AT

COLLEGE ROAD/BILL SACHSENMAIER MEMORIAL ROAD

SIGNALIZATION PLANS

TO HAINES CITY TO LAKE WALES COUNTY TO AVON PARK **≠** BOMBING & GUNNERY RANGE TO BRADENTON Avon Park Estat R.A.U.D. ∕T 33 S T 33 S T 34 S TO LORIDA ELIMITED AREA w ш 2 9 2 9 TO SEBRING TO SEBRING WEST PALM BEACH

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ARTHUR L. SHIPLEY, P.E.
COMPREHENSIVE ENGINEERING SERVICES INC.
201 S. ORANGE AVENUE, SUITE 1300
ORLANDO, FLORIDA 32801

PLANS PREPARED BY:



COMPREHENSIVE ENGINEERING SERVICES INC.
201 S. ORANGE AVENUE, SUITE 1300
ORLANDO, FLORIDA 32801
CERTIFICATE OF AUTHORIZATION NO. 7862
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SIGNALIZATION PLANS

ARTHUR L. SHIPLEY, P.E.

DATE: 11/16/00 P.E. NO.: 49398

PISCAL SHEET NO.

REVISIONS

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FLORIDA DEPARTMENT OF TRANSPORTATION
ROADWAY AND TRAFFIC DESIGN STANDARDS
DATED JANUARY 2000, AND
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CONSTRUCTION DATED 2000,
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INDEX OF SIGNALIZATION PLANS

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CONCRETE STRAIN POLE SCHEDULE

LOCATION NO.I

(M.P.12.465)

S.R.25 (U.S.27) & COLLÈGE RD./BILL SÁCHSENMAIER MEMORIAL RD.

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DATE FLORIDA DEPARTMENT OF
1-00 TRANSPORTATION
-00 APPROVED BY:

DATE:

DATE:

CES Comprehensive Engineering
Engineering
201 S Omnge Ave, Suize 1300 Ottone(): 128201-341
Engineering Business Number: 7852

TABULATION OF OUANTITIES

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632-7-1	CABLE (SIGNAL) (FURNISH & INSTALL)	PI	1																	ı	I	
	SPAN WIRE ASSEMBLY (F81)(2 WIRE)(DIAGONAL)	PI	1																	ll_	1	
	PULL 8 JUNCTION BOXES (F81) (PULL BOX)	EA	13																	13	13	
	ELECTRICAL POWER SERVICE(OVERHEAD)	AS	1																	1	1	
639-2-1	ELECTRICAL SERVICE WIRE	LF	30																	30	30	
641-16-142	PREST CONC POLE (F81)(42' TYPE N VII)	ΕA	2																	2	2	
650-51-311	SIGNAL TRAFFIC(F&I)(3 SECT I WAY)(STD)	AS	8																	8	8	
650-51-511	SIGNAL TRAFFIC(F&I)(5 SECT WAY)(STD)	AS	2																	2	2	
659-101	SIGNAL HEAD AUXILIARIES (BACK PLATES 3 SECT)	EA	4						-											4	4	
660-1-105	LOOP DETECTOR INDUCTIVE (F&I) (TYPE 5)	EA	6											, \						6	6	
660-1-106	LOOP DETECTOR INDUCTIVE (F&I) (TYPE 6)	EA	1							í.										1	ī	
660-2-102	LOOP ASSEMBLY (F&I) (TYPE B)	AS	12							1	A		/							12	12	
660-2-106	LOOP ASSEMBLY (F&I) (TYPE F)	AS	6					1												6	6	
670-5-110	CONTROLLER ASSEMBLY ACT SS F&I NEMA PRE(NONE)	AS	ı					8		-										ı	ı	
680-111	SYSTEM CONTROL EQUIPMENT (ROADSIDE MASTER)	EA	1									- 1		_9								
680-115	SYSTEM CONTROL EQUIPMENT (AUTODIAL/ANSWER EXT COMM MODEM)	EA	1						1	~		- 4								1		
685-127	SYSTEM AUXILIARIES (TELEPHONE CONNECTION BOX)	EA	ı						1											i		
690-10	SIGNAL HEAD TRAFFIC ASSEMBLY REMOVAL	EA	9					T f											-	9	9	
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GENERAL NOTES

- 1. BASE OF CONTROLLER TO BE SAME ELEVATION AS CENTER OF ROADWAY OR GREATER.
- INSURANCE AS REFERENCED IN SECTION 7-13.5 IN THE F.D.O.T. STANDARD SPECIFICATIONS FOR ROADWAY AND BRIDGE CONSTRUCTION (EDITION AS SHOWN ON KEY SHEET) SHALL BE PROVIDED BY THE CONTRACTOR WHEN INSTALLING OR WHEN WORKING ON OR IN THE VICINITY OF JOINT-USE POLES OR WHEN WORKING IN THE VICINITY OF POWER
- THE CONTRACTOR SHALL NOTIFY THE HIGHLANDS COUNTY TRAFFIC ENGINEER AT LEAST 24 HOURS IN ADVANCE OF LOOP CUTTING. THE TRAFFIC ENGINEER MAY CHALK THE LOOPS AND OBSERVE THEIR INSTALLATION IF HE SO DESIRES.
- 4. TYPE "F" LOOPS SHALL BE 6'x 50' AND PLACED A MINIMUM OF 2' IN ADVANCE OF THE
- 5. LOOP HOME RUNS SHALL BE PLACED IN CONDUIT.
- THE USE OF PREFORMED LOOPS IS NOT PERMITTED.
- WHEN CONDUIT IS INSTALLED UNDER ROADWAY PAVEMENT, ONE ADDITIONAL RUN SHALL BE INSTALLED FOR FUTURE USE.
- IT SHOULD BE NOTED NO TEST BORINGS WERE MADE WHERE CONDUIT RUNS ARE TO BE INSTALLED BY JACKING OR TRENCHING. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO EXAMINE THE JOB SITE CONDITIONS BEFORE SUBMITTING BID PROPOSALS IN ACCORDANCE WITH SECTION 2-4 OF THE STANDARD SPECIFICATIONS.
- THE CONTROLLER SHALL REVERT TO FULL ACTUATED OPERATION UPON DISCONNECTING THE COORDINATING UNIT WHEN LOOPS ARE AVAILABLE ON THE COORDINATED APPROACHES.
- 10. FOR PAVEMENT MARKINGS SEE SIGNING AND PAVEMENT MARKING PLANS.
- ALL CONDUIT SHALL BE 2" MINIMUM UNLESS OTHERWISE SPECIFIED IN PLANS, EXCEPT ELECTRICAL POWER SERVICE DUCT. INTERCONNECT CABLE CONDUIT SHALL BE 3" MINIMUM.

12. AT LEAST 48 HOURS PRIOR TO BEGINNING THE TRAFFIC SIGNAL INSTALLATION, CON-TRACTOR SHALL CONTACT:

CARMON C. THOMPSON, TRAF. OPS. LIAISON FLORIDA DEPARTMENT OF TRANSPORTATION P.O. BOX 1249 (801 N. BROADWAY)

(SUNCOM 557-2513)

- 13. A MANUAL PUSHBUTTON CORD SHALL BE FURNISHED IN ALL CONTROLLER CABINETS.
- 14. EXISTING EQUIPMENT OWNERS: THE FLORIDA DEPARTMENT OF TRANSPORTATION. SIGNAL TO BE MAINTAINED BY: HIGHLANDS COUNTY TRAFFIC DEPARTMENT.
- 15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION OF EXISTING UTILITIES, BOTH HORIZONTAL AND VERTICAL PRIOR TO BORING OR JACKING OPERATIONS.
- AS DIRECTED BY THE PROJECT ENGINEER, THE CONTRACTOR SHALL ADJUST CONDUIT & PULL BOXES HORIZONTALLY AND/OR VERTICALLY IN ORDER TO AVOID ANY POSSIBLE CONFLICTS WITH UNDERGROUND UTILITIES.
- 17. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UTILITIES PRIOR TO EXCAVATION.
- CONCRETE AREAS DISTURBED BY THE INSTALLATION OF PULL BOXES, SIGNAL POLES AND PEDESTRIAN POLES SHALL BE REPLACED. REPLACEMENT SHALL BE TO THE NEAREST EXPANSION JOINT.
- EXISTING SIGNALIZATION SHALL REMAIN IN PLACE TO THE EXTENT POSSIBLE AND SHALL BE USED FOR MAINTENANCE OF TRAFFIC AS REQUIRED. THE MAINTENANCE OF EXISTING SIGNALS, UNTIL REMOVED, SHALL REMAIN THE RESPONSIBILITY OF THE CONTRACTOR. SIGNALIZATION SHALL BE MAINTAINED THROUGHOUT THE LIFE OF THE CONTRACT.
- THE CONTROLLER CABINET SHALL BE ORIENTED SUCH THAT THE CABINET DOOR SWINGS OPEN AWAY FROM THE INTERSECTION.
- ALL EXISTING TRAFFIC SIGNAL EQUIPMENT BEING REMOVED SHALL BE RETURNED TO THE HIGHLANDS COUNTY TRAFFIC MAINTENANCE OFFICE.
- 22. THE INSTALLATION OF CONDUIT AND PULL BOXES FOR ELECTRICAL POWER SERVICE IS TO BE COORDINATED WITH UTILITY COMPANIES AS DIRECTED BY THE ENGINEER.
- 23. THE LOCATIONS SHOWN FOR THE POWER SERVICE POINTS FOR EACH TRAFFIC SIGNAL ARE APPROXIMATE LOCATIONS. THE CONTRACTOR SHALL CONTACT THE LOCAL ELECTRIC COMPANY TO COORDINATE THE EXACT LOCATION OF THE POWER SERVICE.

24. SECTION 611-4, FIELD TESTS:

FINANCIAL PROJ. ID STATE PROJ. NO. SHEET NO. 194510-1-52-01 09030-3501

SCHEDULING OF THE CONDITIONAL ACCEPTANCE INSPECTION SHALL BE COORDINATED WITH CARMON THOMPSON, TRAFFIC OPERATIONS LIAISON (PH: 863-519-2513) WITH A MINIMUM OF 48 HOURS NOTICE.

RESULTS OF FIELD TESTS, I.E., SECTION 611-4.1, 4.2, 4.3, AND 4.4, SHALL BE MADE AVAILABLE TO THE PROJECT ENGINEER IN WRITTEN FORM. A QUALIFIED REPRESENTATIVE SHALL BE PRESENT AT THE CONDITIONAL ACCEPTANCE INSPECTION OF THE CONTROLLER ASSEMBLY. THE QUALIFICATIONS OF THE REPRESENTATIVE SHALL INCLUDE:

(A) COMPLETE FAMILIARITY WITH ALL SYSTEM ELEMENTS INCLUDING CONTROLLERS, COORDINATING UNITS, SYSTEM CLOCKS AND SYSTEM COMMUNICATIONS ELEMENTS. THE REPRESENTATIVE SHALL BE QUALIFIED TO INPUT AND RECALL ALL CONTROLLER AND SYSTEM

UTILITY OWNERS

UNITED TELEPHONE COMPANY P.O.BOX 1028 AVON PARK, FL 33825 ATTN. MR. TONY BRANNON PHONE (863) 452-3164

CITY OF AVON PARK 110 E. MAIN STREET AVON PARK, FL 33825

COMCAST COMMUNICATIONS 3010 HERRING AVENUE SEBRING, FL. 33870 ATTN. MR. L.K. BUTLER ATTN. MR. WALT MCHARGUE PHONE (863) 452-4427 PHONE (863) 385-4401

FLORIDA POWER CORPORATION 151 E. CENTRAL AVENUE LAKE WALES, FL 33853-7119 ATTN. ROBERT WILLIAMS OR TROY COCKRANE PHONE (863) 471-5858

PEOPLE GAS SYSTEM P.O. BOX 1704 AVON PARK, FL 33825 ATTN. MR. REYNOLDS PHONE (863) 452-2251

PAY ITEM NOTES

1. 630-1-12:

IN LIEU OF THE INSTALLATION OF NEW CONDUIT, EXISTING CONDUIT (IF NOT DAMAGED) MAY BE RE-USED, AS DIRECTED BY THE PROJECT ENGINEER.

PAYMENT SHALL INCLUDE THE COST OF TRENCHING AND ALL CONDUIT IN TRENCH.

2. 630-1-12:

CONDUIT UNDER PROPOSED ROADWAY AND/OR SIDEWALK SHALL BE INSTALLED PRIOR TO INSTALLATION OF ROADWAY BASE AND SURFACE OR CONCRETE.

3. 630-1-14:

UNDERGROUND JACKED CONDUIT IS TO INCLUDE MULTIPLE CONDUITS (PVC OR EQUAL) INSTALLED IN ONE JACKED SLEEVE UNDER ROADWAY (OR RAILROAD TRACK). SEE PLAN SHEET(S) FOR NUMBER OF CONDUITS.

4. 632-7-1:

THIS ITEM SHALL INCLUDE ALL LABOR AND WIRE NECESSARY FOR COMPLETE

SIGNAL CABLE SHALL BE SPLICED TO A SEPARATE CABLE (FOR EACH SIGNAL HEAD) IN THE BASE OF THE SIGNAL POLE. EACH SEPARATE CABLE SHALL
HAVE A MINIMUM OF 0.5 FT. DIAMETER LOOP FOR FUTURE SPLICING. THE
CABLES SHALL BE CONNECTED USING B-CAP (EPOXY FILLED) TWIST WIRE NUTS.
A PERMANENT MARKING SHALL BE PLACED ON THE WIRE DESIGNATING THE PHASE
USED. SPARE CONDUCTORS SHALL BE CONNECTED TOGETHER USING B-CAP (EPOXY FILLED) TWIST WIRE NUTS. NUMBER OF SPARE CONDUCTORS SHALL BE IN ACCORDANCE WITH SECTION 632-3.1 OF THE F.D.O.T. STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, BOOKLET EDITION AS NOTED ON KEY SHEET.

5. 635-1-11:

CONTRACTOR IS RESPONSIBLE FOR APPROPRIATELY SIZING EACH PULL BOX SO THE COMMUNICATION AND/OR INTERCONNECT CABLE DOES NOT EXCEED MANUFAC-TURERS RECOMMENDED BENDING RADIUS.

PULL BOXES AND LIDS SHALL BE QUAZITE OR THE APPROVED EQUIVALENT.

6. 639-1-12:

THIS ITEM SHALL INCLUDE THE COST OF ALL SPECIAL IMPACT CONNECTION FEES CHARGED BY LOCAL POWER COMPANIES FOR ELECTRICAL SERVICE CONNECTION. THIS ITEM SHALL INCLUDE A LEVER-TYPE BYPASS METER SOCKET.

7. 639-2-1:

PAYMENT SHALL BE BASED ON THE LINEAR FOOT OF A SINGLE CONDUCTOR.

IN ADDITION TO THREE SERVICE WIRES, THIS ITEM SHALL INCLUDE A BONDING WIRE FROM ELECTRICAL SERVICE POINT TO CONTROLLER.

8. 641-17-146 AND 641-17-150:

THIS ITEM SHALL INCLUDE FURNISHING, INSTALLING, AND REMOVING ALL TEMPORARY EQUIPMENT NECESSARY FOR STABILIZING EXISTING SIGNAL POLES DURING CONSTRUCTION.

9. 650-51-311, AND 650-51-511:

THE ELECTRICAL CONNECTORS IN THE DISCONNECT HOUSING SHALL BE CAPABLE OF CONNECTING WITH CINCH JONES CONNECTORS WITHOUT USE OF SPECIAL ADAPTORS.

ALL SIGNAL HEADS SHALL HAVE GLASS LENSES.

CONTRACTOR SHALL PROVIDE B-CAP (EPOXY FILLED) TWIST WIRE NUTS FOR ALL CONNECTIONS IN THE DISCONNECT. CONTRACTOR SHALL ALSO PROVIDE RED, YELLOW, GREEN, AND WHITE THHN -14 COPPER WIRE FROM DISCONNECT TO SIGNAL HEAD. A PERMANENT MARKING SHALL BE PLACED ON THE WIRE DESIGNATING THE

SIGNAL HEAD RED SECTION SHALL BE APPROVED LED TYPE.

10. 660-2-102 AND 660-2-106:

EUCLID 495-H.P. OR 3M "DETECTOR LOOP SEALANT" SHALL BE USED FOR SEALANT

CONTRACTOR SHALL SPLICE LOOP WIRE TO LEAD-IN WIRE USING B-CAP (SILICONE

EACH LOOP SHALL BE MARKED PER PHASE AND PER DIRECTION AT EACH SPLICE POINT AND AT THE CABINET TERMINATION POINT

CONTRACTOR SHALL INSTALL THE TWISTED PAIR AND LOOP LEAD-IN AS SHOWN IN ALTERNATIVE I OF INDEX NO. 1778I OF THE ROADWAY AND TRAFFIC DESIGN STANDARDS, BOOKLET EDITION AS NOTED ON KEY SHEET.

THIS ITEM SHALL INCLUDE LOOP LEAD-IN WIRE FROM LOOP PULL BOX TO CONTROLLER UNLESS NOTED OTHERWISE ON PLAN SHEET.

11. 670-5-110:

THIS ITEM SHALL INCLUDE ADDITIONAL COST OF CONCRETE, LABOR, AND OTHER MATERIALS FOR CONTROLLER BASE, PAD, AND STEPS AS REQUIRED.

THIS ITEM SHALL INCLUDE THE IMPLEMENTATION OF TIMINGS INTO ALL COM-PONENTS. THE COORDINATION TIMINGS WILL BE SUPPLIED TO THE PROJECT ENGINEER UPON HIS REQUEST. REQUESTS SHOULD BE MADE TO DISTRICT I TRAFFIC OPERATIONS ENGINEER, TELEPHONE (863) 519-2490.

THE CONTROLLER AND CABINET SHALL BE COMPATIBLE WITH THE EXISTING HIGHLANDS COUNTY CLOSED LOOP COMPUTER SYSTEM. ALL LABOR AND MATERIALS (INCLUDING THE INTERFACE PANEL AND LIGHTNING ARRESTORS) NECESSARY FOR A COMPLETE AND ACCEPTABLE INSTALLATION SHALL BE INCLUDED IN THE PRICE FOR A CONTROLLER ASSEMBLY.

CONTROLLER CABINET SHALL INCLUDE I ADDITIONAL SPARE CONDUIT (FOR A TOTAL OF 3 SPARES) IN THE CABINET BASE.

12. 700-48-18 :

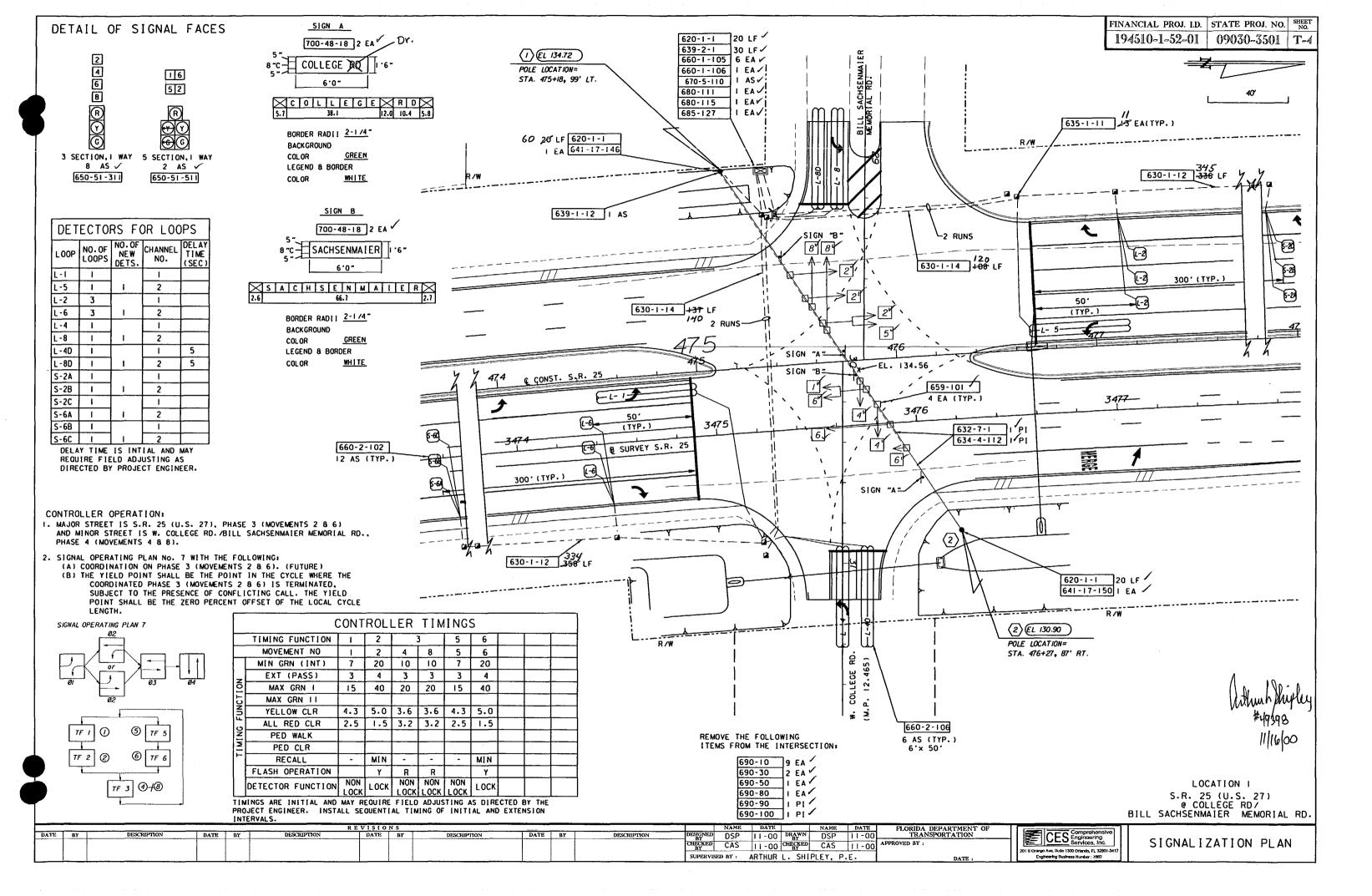
THIS ITEM SHALL INCLUDE THE DROP PIPES, BRACKETS, CLAMPS AND ALL MIS-CELLANEOUS HARDWARE NECESSARY TO INSTALL THE SIGNS (TYPE "B" MOUNTING) ON THE SIGNAL SPAN WIRE, IN ACCORDANCE WITH INDEX NO. 17356. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DESIGNING SIGN SUPPORT COMPONENTS TO MEET THE FOLLOWING CRITERIA:

SIGN AREA MINIMUM DEAD LOAD WEIGHT MINIMUM WIND LOAD

17.5 S.F. 80 LBS.

					RI	OISIV	N S					I	NAME	DATE	NAME	DATE	FLORIDA DEPARTMENT OF
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DESIGNED	DSP	II-00 DRAWN	DSP	11-00	TRANSPORTATION
												CHECKED BY SUPERVISE	CAS DBY:ARTH	II-00 CHECKED	CAS Y, P.E.	11-00	APPROVED BY : DATE :





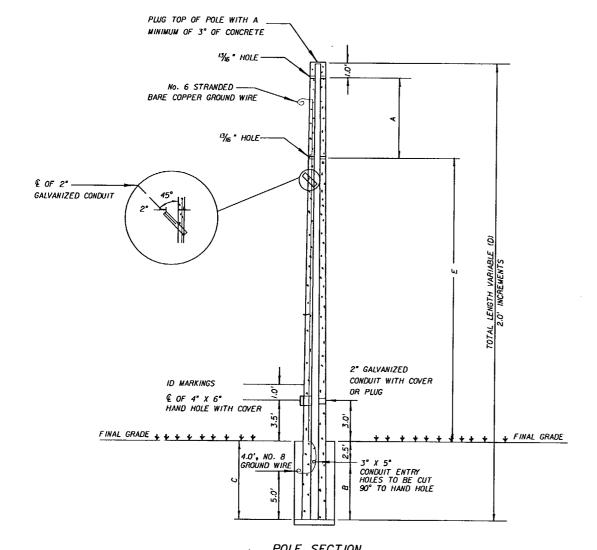
POLE SCHEDULE

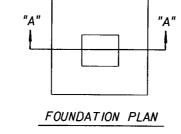
	FINANCIAL PROJ. I.D.	STATE PROJ. NO.	SHEET NO.
ı	194510-1-52-01	09030-3501	T-5

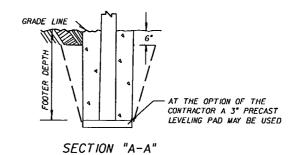
	LEAD IN CABLES
	TWISTED PAIR LOOP WIRE
	CONDUIT
M	CONTROLLER
→ □	SIGNAL HEAD AND DIRECTION ARROW
	SIGNAL HEAD NUMBER
	SIGNAL PULL BOX
•	SIGNAL POLE
•	PEDESTRIAN POLE
F	PEDESTRIAN HEAD

STATION	0FFSET	POLE NO.	TYPE	FOOTER DEPTH	Α	D	ITEM NO.	QUANTITY	*CATENARY WIRE	*MESSENGEF WIRE
475+I8	99' LT	1	N-VIII	11.0'	11.75'	46'	641-17-146	1		
476+27	87' RT	2	N-VIII	11.0*	11.75	50'	641-17-150	,	1/4"	3/8"
			-							

^{*} CATENARY AND MESSENGER WIRES ARE TO BE EXTRA HIGH STRENGTH GRADES.





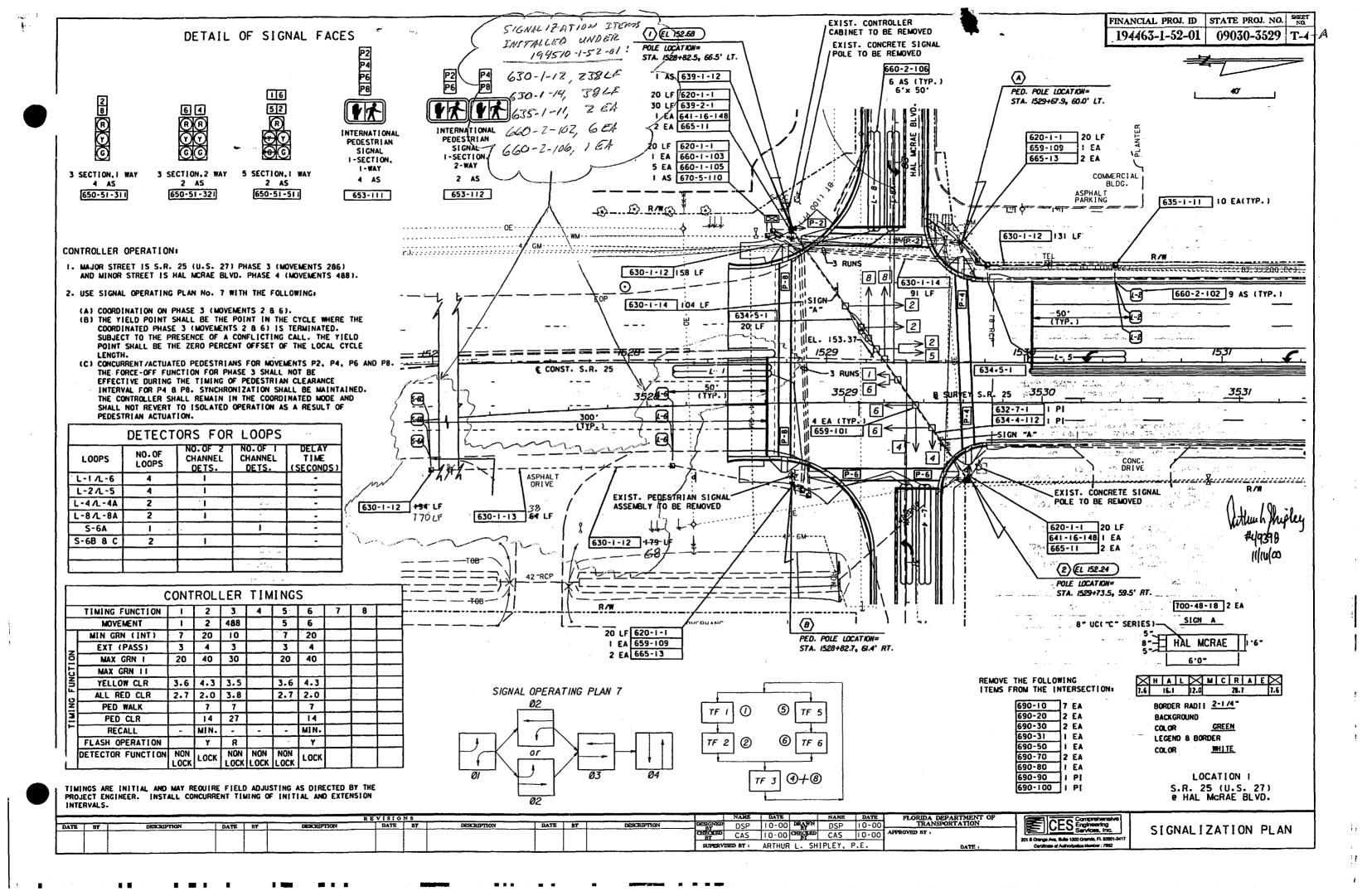


Within L Shipley #49398

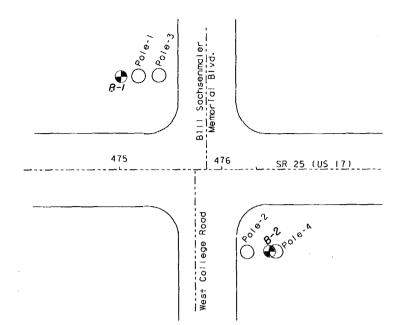
PU	LE :	SECT	IUN
TYPES	N-111	through	N-VIII

					D P 11 1 6 1 0	N. 0	· · · · · · · · · · · · · · · · · · ·											
E P	NY .	DESCRIPTION	DATE BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION DESIGNED BY CHECKED	DSP	11-00	DRAWN BY	DSP	DATE II-00		CES Comprehensive	С
										BY SUPERV	CAS	ARTHUR	L. SHI	CAS PLEY, P	.E.	APPROVED BY : DATE :	201 8 Orange Ave, Sufe 1300 Orande, FL 32301-3417 Engineering Business Number : 7862	(

CONCRETE STRAIN POLE SCHEDULE
CONVENTIONAL SIGNAL SYMBOLS



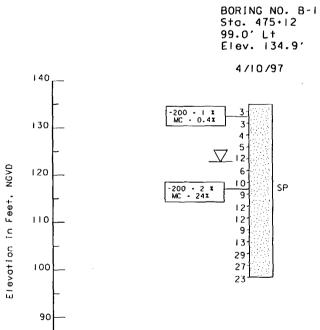
FINANCIAL FROZECT NO. | FED. ROAD | STATE | PROJECT NO. | FISCAL | SHELT | NO. | | FISCAL | NO. | FISCAL

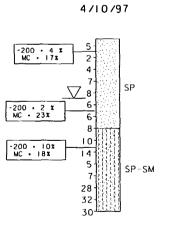




RECOMMENDED DESIGN PARAMETERS FOR POLES 1, 2, 3 and 4

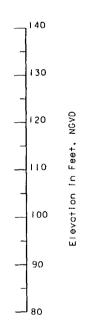
Depth (Feet)		Submerged Unit Wt. (pcf)	Angle of Internal Friction (degrees)	Cohesion (psf)
0.0'-29.0'	105	42.6	29	
29.01-36.51	115	52.6	32	*****





BORING NO. B-2 Sta. 476+37 87.0' Rt

Elev. 132.8'



LEGEND :

• SP, Poorly graded sands, sand-silt mixtures.

SP-SM. Poorly graded sands and gravelly sands, to slity sands, sand-slit mixtures.

NOTES :

Numbers to the left of borings indicate SPT values for 12" penetration. (Unless otherwise noted.)

Design parameters based on SPT Borings performed at the subject intersection.

All Elevations based on BM • 51

☑ • Water Table

Type Rig - CME 75

Hammer used • CME Automotic

Boring location

O . Pole location

BENCHMARK LOCATION DESCRIPTION :

2.0 miles South of the intersection of US 27 and SR 64.

BENCHMARK DESCRIPTION :

Standard F.D.O.T. concrete monument with brass disc.

Granular Materials- Relative Density	SPT (Blows/Ft)
Very Loose	Less than 4
Loose	4 ~ 10
Medium or Compact	10 - 30
Dense	30 - 50
Very Dense	Greater than 50

Silts and Clays- Consistency	SPT (Blows/Ft)			
Very Soft	Less than 2			
Soft	2 - 4			
Firm	4 - 8			
Stiff	8 - 15			
Very Stiff	15 - 30			
Hard	Greater than 30			

\$\$\$\$					·	CUELL THE	
TIMES	REVISIONS Date By Description Date By Description	Nomes Dates Drawn by DML 5/97 Checked by MJB 5/97	ENGINEER OF RECORD: MATERIALS OFFICE	LOGO:	FLORIDA DEPARTMENT OF TRANSPORTATION MATERIALS OFFICE	Report of Core Borings	Drawing No.
\$\$\$SY		Checked by MJB 5/97 Designed by Checked by	DISTRICT 1 801 N. Broadway Bartow, Florida 33830-1249	Juna Parkon	2010 NO 2010 TV	FROJECT NAME: SR 25 (US 27) of College Road/	index No.
688		Approved by T.N. Puckett		# 1 () may !		Bill Sachsenmaier Memorial Road (Signals)	<u> </u>